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☐	L22	715/513.ccls.	3376
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☐	L5	l4 and recordset	0
☐	L4	((olap adj1 cube) same recordset)	0
☐	L3	(olap near cube)	239
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☐	L1	(((multi-dimensional or multidimensional) adj1 cube) same (record or records) same mapping same template)	1

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1 Fast detection of communication patterns in distributed executions   ■
Thomas Kunz, Michiel F. H. Seuren
November 1997 **Proceedings of the 1997 conference of the Centre for Advanced
                Studies on Collaborative research CASCON '97**
Publisher: IBM Press
Full text available: 🗎 pdf(4.21 MB)   Additional Information: full citation, abstract, references, index terms

> Understanding distributed applications is a tedious and difficult task. Visualizations based
> on process-time diagrams are often used to obtain a better understanding of the
> execution of the application. The visualization tool we use is Poet, an event tracer
> developed at the University of Waterloo. However, these diagrams are often very complex
> and do not provide the user with the desired overview of the application. In our
> experience, such tools display repeated occurrences of non-trivial commun ...

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2 GPGPU: general purpose computation on graphics hardware   ■
David Luebke, Mark Harris, Jens Krüger, Tim Purcell, Naga Govindaraju, Ian Buck, Cliff
Woolley, Aaron Lefohn
August 2004 **ACM SIGGRAPH 2004 Course Notes SIGGRAPH '04**
Publisher: ACM Press
Full text available: 🗎 pdf(63.03 MB)   Additional Information: full citation, abstract, citings

> The graphics processor (GPU) on today's commodity video cards has evolved into an
> extremely powerful and flexible processor. The latest graphics architectures provide
> tremendous memory bandwidth and computational horsepower, with fully programmable
> vertex and pixel processing units that support vector operations up to full IEEE floating
> point precision. High level languages have emerged for graphics hardware, making this
> computational power accessible. Architecturally, GPUs are highly parallel s ...

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3 Analysis of navigation behaviour in web sites integrating multiple information systems   ■
Bettina Berendt, Myra Spiliopoulou
March 2000 **The VLDB Journal — The International Journal on Very Large Data Bases,**
                Volume 9 Issue 1
Publisher: Springer-Verlag New York, Inc.
Full text available: 🗎 pdf(281.14 KB)   Additional Information: full citation, abstract, citings, index terms

> The analysis of web usage has mostly focused on sites composed of conventional static
> pages. However, huge amounts of information available in the web come from databases
> or other data collections and are presented to the users in the form of dynamically

generated pages. The query interfaces of such sites allow the specification of many search criteria. Their generated results support navigation to pages of results combining cross-linked data from many sources. For the analysis of visitor naviga ...

Keywords: Conceptual hierarchies, Data mining, Query capabilities, Web databases, Web query interfaces, Web usage mining

4 Web mining for web personalization
Magdalini Eirinaki, Michalis Vazirgiannis
February 2003 **ACM Transactions on Internet Technology (TOIT)**, Volume 3 Issue 1
Publisher: ACM Press

Full text available: pdf(293.73 KB) Additional Information: <u>full citation</u>, <u>abstract</u>, <u>references</u>, <u>citings</u>, <u>index terms</u>, <u>review</u>

Web personalization is the process of customizing a Web site to the needs of specific users, taking advantage of the knowledge acquired from the analysis of the user's navigational behavior (usage data) in correlation with other information collected in the Web context, namely, structure, content, and user profile data. Due to the explosive growth of the Web, the domain of Web personalization has gained great momentum both in the research and commercial areas. In this article we present a survey ...

Keywords: WWW, Web personalization, Web usage mining, user profiling

5 NSF workshop on industrial/academic cooperation in database systems
Mike Carey, Len Seligman
March 1999 **ACM SIGMOD Record**, Volume 28 Issue 1
Publisher: ACM Press
Full text available: pdf(1.96 MB) Additional Information: <u>full citation</u>, <u>index terms</u>

6 Survey articles: Web usage mining: discovery and applications of usage patterns from Web data
Jaideep Srivastava, Robert Cooley, Mukund Deshpande, Pang-Ning Tan
January 2000 **ACM SIGKDD Explorations Newsletter**, Volume 1 Issue 2
Publisher: ACM Press
Full text available: pdf(1.44 MB) Additional Information: <u>full citation</u>, <u>abstract</u>, <u>references</u>, <u>citings</u>

Web usage mining is the application of data mining techniques to discover usage patterns from Web data, in order to understand and better serve the needs of Web-based applications. Web usage mining consists of three phases, namely *preprocessing, pattern discovery*, and *pattern analysis*. This paper describes each of these phases in detail. Given its application potential, Web usage mining has seen a rapid increase in interest, from both the research and practice communities. This pap ...

Keywords: data mining, web usage mining, world wide web

7 OLAP over uncertain and imprecise data
Doug Burdick, Prasad M. Deshpande, T. S. Jayram, Raghu Ramakrishnan, Shivakumar Vaithyanathan
January 2007 **The VLDB Journal — The International Journal on Very Large Data Bases**, Volume 16 Issue 1
Publisher: Springer-Verlag New York, Inc.

Full text available: pdf(434.80 KB)   Additional Information: full citation, abstract, index terms

We extend the OLAP data model to represent data ambiguity, specifically imprecision and uncertainty, and introduce an allocation-based approach to the semantics of aggregation queries over such data. We identify three natural query properties and use them to shed light on alternative query semantics. While there is much work on representing and querying ambiguous data, to our knowledge this is the first paper to handle both imprecision and uncertainty in an OLAP setting.

Keywords: Aggregation, Ambiguous, Imprecision, Uncertainty

8   CubiST: a new algorithm for improving the performance of ad-hoc OLAP queries

Lixin Fu, Joachim Hammer
November 2000 **Proceedings of the 3rd ACM international workshop on Data warehousing and OLAP DOLAP '00**
Publisher: ACM Press
Full text available: pdf(296.08 KB)   Additional Information: full citation, references, citings, index terms

Keywords: OLAP, data cube, data warehouse, index structure, query optimization, query processing

9   Towards OLAP security design — survey and research issues

Torsten Priebe, Günther Pernul
November 2000 **Proceedings of the 3rd ACM international workshop on Data warehousing and OLAP DOLAP '00**
Publisher: ACM Press
Full text available: pdf(107.83 KB)   Additional Information: full citation, references, citings, index terms

Keywords: OLAP, access control, data warehouse, design, security

10   Detecting patterns and OLAP operations in the GOLD model

Juan Trujillo, Manuel Palomar, Jaime Gómez
November 1999 **Proceedings of the 2nd ACM international workshop on Data warehousing and OLAP DOLAP '99**
Publisher: ACM Press
Full text available: pdf(785.68 KB)   Additional Information: full citation, abstract, references, citings, index terms

The aim of our GOLD model ([7], [9]) is to provide an Object Oriented (OO) Multidimensional data model supported by an OO formal specification language that allows us to automatically generate prototypes from the specification at the conceptual level, and therefore, to animate and check system properties. Within the context of OO modeling and automatic prototyping, the basis of the mapping from modeling to programming is focused on the identification of (cardinality and beh ...

11   Crowd and group animation

Daniel Thalmann, Christophe Hery, Seth Lippman, Hiromi Ono, Stephen Regelous, Douglas Sutton
August 2004 **ACM SIGGRAPH 2004 Course Notes SIGGRAPH '04**
Publisher: ACM Press

Full text available: 📄 pdf(20.19 MB)   Additional Information: <u>full citation, abstract</u>

A continuous challenge for special effects in movies is the production of realistic virtual crowds, in terms of rendering and behavior. This course will present state-of-the-art techniques and methods. The course will explain in details the different approaches to create virtual crowds: particle systems with flocking techniques using attraction and repulsion forces, copy and pasting techniques, agent-based methods. The architecture of software tools will be presented including the MASSIVE softwa ...

12 A survey of logical models for OLAP databases

Panos Vassiliadis, Timos Sellis

December 1999 **ACM SIGMOD Record**, Volume 28 Issue 4

Publisher: ACM Press

Full text available: 📄 pdf(604.36 KB)   Additional Information: <u>full citation, abstract, citings, index terms</u>

In this paper, we present different proposals for multidimensional data cubes, which are the basic logical model for OLAP applications. We have grouped the work in the field in two categories: commercial tools (presented along with terminology and standards) and academic efforts. We further divide the academic efforts in two subcategories: the relational model extensions and the cube-oriented approaches. Finally, we attempt a comparative analysis of the various efforts.

13 XML and architecture: Achieving adaptivity for OLAP-XML federations

Dennis Pedersen, Torben Bach Pedersen

November 2003 **Proceedings of the 6th ACM international workshop on Data warehousing and OLAP DOLAP '03**

Publisher: ACM Press

Full text available: 📄 pdf(119.23 KB)   Additional Information: <u>full citation, abstract, references, index terms</u>

Motivated by the need for more flexible OLAP systems, this paper presents work on logical integration of external data in OLAP databases, carried out in cooperation between the Danish OLAP client vendor targit and Aalborg University. Flexibility is ensured by supporting XML as the external data format, since almost all data sources can be efficiently wrapped in XML. Earlier work has resulted in an extension of the targit system, allowing external XML data to be used as dimensio ...

Keywords: OLAP, XML, adaptivity, federated databases

14 An open-source CVE for programming education: a case study: An open-source CVE for programming education: a case study

Andrew M. Phelps, Christopher A. Egert, Kevin J. Bierre, David M. Parks

July 2005 **ACM SIGGRAPH 2005 Courses SIGGRAPH '05**

Publisher: ACM Press

Full text available: 📄 pdf(7.92 MB)   Additional Information: <u>full citation, references</u>

15 An overview of data warehousing and OLAP technology

Surajit Chaudhuri, Umeshwar Dayal

March 1997 **ACM SIGMOD Record**, Volume 26 Issue 1

Publisher: ACM Press

Full text available: 📄 pdf(101.60 KB)   Additional Information: <u>full citation, abstract, citings, index terms</u>

Data warehousing and on-line analytical processing (OLAP) are essential elements of decision support, which has increasingly become a focus of the database industry. Many commercial products and services are now available, and all of the principal database management system vendors now have offerings in these areas. Decision support places

some rather different requirements on database technology compared to traditional on-line transaction processing applications. This paper provides an overview ...

16 Real-time shading

Marc Olano, Kurt Akeley, John C. Hart, Wolfgang Heidrich, Michael McCool, Jason L. Mitchell, Randi Rost

August 2004 **ACM SIGGRAPH 2004 Course Notes SIGGRAPH '04**

Publisher: ACM Press

Full text available: pdf(7.39 MB)   Additional Information: full citation, abstract

Real-time procedural shading was once seen as a distant dream. When the first version of this course was offered four years ago, real-time shading was possible, but only with one-of-a-kind hardware or by combining the effects of tens to hundreds of rendering passes. Today, almost every new computer comes with graphics hardware capable of interactively executing shaders of thousands to tens of thousands of instructions. This course has been redesigned to address today's real-time shading capabili ...

17 Industrial session: data warehousing and data mining: Bridging the gap between OLAP and SQL

Jens-Peter Dittrich, Donald Kossmann, Alexander Kreutz

August 2005 **Proceedings of the 31st international conference on Very large data bases VLDB '05**

Publisher: VLDB Endowment

Full text available: pdf(409.18 KB)   Additional Information: full citation, abstract, references, index terms

In the last ten years, database vendors have invested heavily in order to extend their products with new features for decision support. Examples of functionality that has been added are top N [2], ranking [13, 7], spreadsheet computations [19], grouping sets [14], data cube [9], and moving sums [15] in order to name just a few. Unfortunately, many modern OLAP systems do not use that functionality or replicate a great deal of it in addition to other database-related functionality. In fact, the ga ... .

18 Extending OLAP querying to external object databases

Torben Bach Pedersen, Arie Shoshani, Junmin Gu, Christian S. Jensen

November 2000 **Proceedings of the ninth international conference on Information and knowledge management CIKM '00**

Publisher: ACM Press

Full text available: pdf(168.32 KB)   Additional Information: full citation, references, citings, index terms

19 Level set and PDE methods for computer graphics

David Breen, Ron Fedkiw, Ken Museth, Stanley Osher, Guillermo Sapiro, Ross Whitaker

August 2004 **ACM SIGGRAPH 2004 Course Notes SIGGRAPH '04**

Publisher: ACM Press

Full text available: pdf(17.07 MB)   Additional Information: full citation, abstract, citings

Level set methods, an important class of partial differential equation (PDE) methods, define dynamic surfaces implicitly as the level set (iso-surface) of a sampled, evolving nD function. The course begins with preparatory material that introduces the concept of using partial differential equations to solve problems in computer graphics, geometric modeling and computer vision. This will include the structure and behavior of several different types of differential equations, e.g. the level set eq ...

20 Facial modeling and animation

Jörg Haber, Demetri Terzopoulos

August 2004 **ACM SIGGRAPH 2004 Course Notes SIGGRAPH '04**
Publisher: ACM Press
Full text available: pdf(18.15 MB)   Additional Information: full citation, abstract

In this course we present an overview of the concepts and current techniques in facial modeling and animation. We introduce this research area by its history and applications. As a necessary prerequisite for facial modeling, data acquisition is discussed in detail. We describe basic concepts of facial animation and present different approaches including parametric models, performance-, physics-, and learning-based methods. State-of-the-art techniques such as muscle-based facial animation, mass-s ...

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Accession number & update
0005940209 20070101.

Title
An alternative storage organization for ROLAP aggregate views based on cubetrees.

Conference information
1998 ACM SIGMOD International Conference on Management of Data, Seattle, WA, USA, 1-4 June 1998.

Source
SIGMOD **Record,** {SIGMOD-Rec-USA}, June 1998, vol. 27, no. 2, p. 249-58, 23 refs, CODEN: SRECD8, ISSN: 0163-5808.
Publisher: ACM, USA.

Author(s)
Kotidis-Y, Roussopoulos-N.

Author affiliation
Kotidis, Y., Roussopoulos, N., Dept. of Comput. Sci., Maryland Univ., MD.

Abstract

Relational on-line analytical processing (ROLAP) is emerging as the dominant approach in data warehousing with decision support applications. In order to enhance query performance, the ROLAP approach relies on selecting and materializing in summary tables appropriate subsets of aggregate views which are then engaged in speeding up **OLAP** queries. However, a straightforward relational storage implementation of materialized ROLAP views is immensely wasteful on storage and incredibly inadequate on query performance and incremental update speed. We propose the use of cubetrees, a collection of packed and compressed R-trees, as an alternative storage and index organization for ROLAP views and provide an efficient algorithm for **mapping** an arbitrary set of **OLAP** views to a collection of cubetrees that achieve excellent performance. Compared to a conventional (relational) storage organization of materialized **OLAP** views, cubetrees offer at least a 2-1 storage reduction, a 10-1 better **OLAP** query performance, and 100-1 faster updates. We compare the two alternative approaches with data generated from the TPC-D benchmark and stored in the Informix Universal Server (IUS). The straightforward implementation materializes the ROLAP views using IUS tables and conventional B-tree indexing. The cubetree implementation materializes the same ROLAP views using a cubetree datablade developed for IUS. The experiments demonstrate that the cubetree storage organization is superior in storage, query performance and update speed.

Descriptors
    DATABASE-THEORY; QUERY-PROCESSING; RELATIONAL-DATABASES; SOFTWARE-PERFORMANCE-EVALUATION; TREE-DATA-STRUCTURES; VERY-LARGE-DATABASES.
Classification codes
    C6160D Relational-databases*;
    C4250 Database-theory;
    C6120 File-organisation;
    C6160Z Other-DBMS.
Keywords
    storage-organization; ROLAP; aggregate-views; cubetrees; relational-online-analytical-processing; data-warehousing; decision-support; query-performance; **OLAP;** incremental-update-speed; R-trees; TPC-D-benchmark; Informix-Universal-Server; B-tree-indexing; cubetree-datablade.
Treatment codes
    P Practical;
    T Theoretical-or-mathematical;
    X Experimental.
Language
    English.
Publication type
    Conference-paper; Journal-paper.
Availability
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Title
> A flexible report architecture based on association rules mining.

Conference information
> Advanced Data Mining and Applications. First International Conference, ADMA2005. Proceedings, Wuhan, China, 22-24 July 2005.

Source
> Advanced Data Mining and Applications. First International Conference, ADMA2005. Proceedings (Lecture Notes in Artificial Intelligence Vol.3584), 2005, p. 736-43, 5 refs, pp. xix+835, ISBN: 3-540-27894-X.
> Publisher: Springer-Verlag, Berlin, Germany.

Author(s)
> <u>Qiping-Hu</u>.
> Editor(s): <u>Li-X</u>; <u>Wang-S</u>, <u>Dong-Z-Y</u>.

Author affiliation
> Qiping Hu, Int. Sch. of Software, Wuhan Univ., China.

Abstract
> This paper proposes flexible report architecture based on association rules data mining. A three-layer architecture is proposed namely, origin-data layer, data-processing layer, and format layer. These three layers are linked by a data variant tree in a power information management system. Users can modify report format as well as data whenever needed. In the origin-data layer data warehouse is used to provide data from multiple databases. In the data-processing layer, on-line analytical processing **(OLAP)** and association rules are used to enhance the **template-making** for reports. A smart solution to the problem of fixed report templates is provided and information in a power information management system can be shared. In some sense it can be an all-purpose tool to generate reports with great flexibility.

Descriptors
> <u>DATA-MINING</u>; <u>DATA-WAREHOUSES</u>; <u>DISTRIBUTED-DATABASES</u>; <u>ELECTRICITY-SUPPLY-INDUSTRY</u>; <u>MANAGEMENT-INFORMATION-SYSTEMS</u>; <u>POWER-ENGINEERING-COMPUTING</u>.

Classification codes
> <u>C7410B</u> <u>Power-engineering-computing</u>*;
> <u>C7165</u> <u>Public-utility-administration</u>;
> <u>C6160B</u> <u>Distributed-databases</u>;

C6160Z Other-DBMS;
C6170K Knowledge-engineering-techniques.

Keywords
flexible-report-architecture; association-rule-mining; data-mining; three-layer-architecture; origin-data-layer; data-processing-layer; format-layer; data-variant-tree; power-information-management-system; report-format; data-warehouse; multiple-databases; on-line-analytical-processing; **OLAP; report-template-making.**

Treatment codes
P Practical.

Language
English.

Publication type
Conference-paper.

Publication year
2005.

Publication date
20050000.

Edition
2005047.

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Accession number & update
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Title
        An iceberg **cube** algorithm for large compressed data warehouses.
Source
        Journal of Software, {J-Softw-China}, Aug. 2006, vol. 17, no. 8, p. 1743-52, 13 refs, CODEN:
        RUXUEW, ISSN: 1000-9825.
        Publisher: Science Press, China.
Author(s)
        <u>Luo-Ji-Zhou</u>, <u>Li-Jian-Zhong</u>, <u>Zhao-Kai</u>.
Author affiliation
        Luo Ji-Zhou, Li Jian-Zhong, Zhao Kai, Sch. of Comput. Sci. & Technol., Harbin Inst. of Technol., China.
Abstract
        Iceberg **cube** is meaningful for **OLAP** (on-line analysis processing) and compression techniques play
        more and more important role in reducing the storage of data warehouse and improving the efficiency

of data operations. It is really a problem to compute iceberg **cube** efficiently in the compressed data warehouse. The compression techniques of data warehouse are introduced concisely in this paper, and an algorithm to compute iceberg **cube** in compressed data warehouse by **mapping-complete** methods is proposed. Experimental results show that this algorithm outperforms the direct method that selects iceberg **cube** tuples from the complete computed **cube.**

Descriptors
  🖉. DATA-MINING; 🖉. DATA-WAREHOUSES.
Classification codes
  C6160Z Other-DBMS*;
  C6170K Knowledge-engineering-techniques.
Keywords
  iceberg-cube-algorithm; large-compressed-data-warehouses; online- analysis-processing; **mapping-complete-methods; OLAP.**
Treatment codes
  P Practical.
Language
  Chinese.
Publication type
  Journal-paper.
Availability
  SICI: 1000-9825(200608)17:8L.1743:ICAL; 1-L.
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  Efficient aggregation algorithms for compressed data warehouses.
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  Publisher: IEEE, USA.
Author(s)
  Jianzhong-Li, Srivastava-J.
Author affiliation
  Jianzhong Li, Dept. of Comput. Sci. & Eng., Harbin Inst. of Technol., China.
Abstract
  Aggregation and **cube** are important operations for online analytical processing **(OLAP).** Many efficient algorithms to compute aggregation and **cube** for relational **OLAP** have been developed. Some work has been done on efficiently computing **cube** for multidimensional data warehouses that store data sets in multidimensional arrays rather than in tables. However, to our knowledge, there is nothing to date in the literature describing aggregation algorithms on compressed data warehouses for

multidimensional **OLAP.** This paper presents a set of aggregation algorithms on compressed data warehouses for multidimensional **OLAP.** These algorithms operate directly on compressed data sets, which are compressed by the **mapping-complete** compression methods, without the need to first decompress them. The algorithms have different performance behaviors as a function of the data set parameters, sizes of outputs and main memory availability. The algorithms are described and the I/O and CPU cost functions are presented in this paper. A decision procedure to select the most efficient algorithm for a given aggregation request is also proposed. The analysis and experimental results show that the algorithms have better performance on sparse data than the previous aggregation algorithms.

Descriptors

DATA-COMPRESSION; DATA-MINING; DATA-WAREHOUSES; SOFTWARE-PERFORMANCE-EVALUATION.

Classification codes

C6160Z Other-DBMS*;
C6170K Knowledge-engineering-techniques;
C6130 Data-handling-techniques.

Keywords

aggregation-algorithms; compressed-data-warehouses; online-analytical-processing; **OLAP; cube;** relational-database; data-mining; multidimensional-data-warehouses; multidimensional-arrays; **multidimensional-OLAP;** performance; main-memory-availability; CPU- cost-functions; experimental-results.

Treatment codes

P Practical;
X Experimental.

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Title

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Author(s)
Vassiliadis-P.
Author affiliation
Vassiliadis, P., Nat. Tech. Univ. of Athens, Greece.
Abstract
Online analytical processing **(OLAP)** is a trend in database technology, which has attracted the interest of a lot of research work. **OLAP** is based on the multidimensional view of data, supported either by multidimensional databases (MOLAP) or relational engines (ROLAP). We propose a model for multidimensional databases. Dimensions, dimension hierarchies and cubes are formally introduced. We also introduce **cube** operations (changing of levels in the dimension hierarchy, function application, navigation etc.). The approach is based on the notion of the base **cube,** which is used for the calculation of the results of **cube** operations. We focus our approach on the support of a series of operations on cubes (i.e., the preservation of the results of previous operations and the applicability of aggregate functions in a series of operations). Furthermore, we provide a **mapping** of the multidimensional model to the relational model and to multidimensional arrays.
Descriptors
DATA-ANALYSIS; DATA-STRUCTURES; DATABASE-THEORY; RELATIONAL-DATABASES;
VERY-LARGE-DATABASES.
Classification codes
C6160Z Other-DBMS*;
C6160D Relational-databases;
C6130 Data-handling-techniques;
C4250 Database-theory.
Keywords
multidimensional-database-modeling; **cube-operations;** online-analytical-processing; **OLAP;** relational-engines; dimension-hierarchies; cubes; dimensions; aggregate-functions; data-warehouse.
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